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To the Honorable Commissioner of Pt. 1. Name of conveying party(ies): (1) Huaiyu PAN (2) Timothy HUGHES (3) Keith WHITE	U.S. Patent and Trademark Office
Additional name(s) of conveying party(ies) attached? Yes No. 3. Nature of conveyance:	Wharf Road Eynsham/Oxford OX8 1PB United Kingdom Additional name(s) & address(es) attached? Yes No
☐ Security Agreement ☐ Change of Name ☐ Other Execution Date: (1) November 3, 2003; (2) October 30, 2002; and (3) October 30, 2002 4. Application number(s) or patent number(s): If this document is being filed together with a new application, the October 30, 2002; and (3) October 30, 2002. A. Patent Application No.(s)	e execution date of the application is: (1) November 3, 2003; (2) B. Patent Registration No.(s)
Additional number(s) at 5. Name and address of party to whom correspondence concerning document should be mailed:	ttached ☐ Yes ☑ No 6. Total number of applications and patents involved 1
Name: Gary R. Edwards, Esquire Crowell & Moring LLP Intellectual Property Group Internal Address:	7. Total fee (37 CFR 3.41)\$40.00 ☑ Enclosed ☐ Authorized to be charged to deposit account
PO Box 14300 Washington, DC 20044-4300	8. Deposit account number: 05-1323 (Attach duplicate copy of this page if paying by deposit account)
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Statement and signature. To the best of my knowledge and belief, the foregoing int	formation is true and correct and any attached copy

Gary R. Edwards, Reg. No. 31,824 Name of Person Signing

is a true copy of the original document.

February 10, 2004 Date

Total number of pages including cover sheet, attachments, and document: 3

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PATENT REEL: 014970 FRAME: 0851

ASSIGNMENT

For good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, each undersigned inventor has sold and assigned, and by these presents hereby sells and assigns, unto:

OXFORD MAGNET TECHNOLOGY LIMITED

(hereinafter ASSIGNEE) all right, title and interest for the United States, its territories and possessions in and to his invention relating to:

A PULSE TUBE REFRIGERATOR

<u> </u>	executed concurrently herewith, was filed as PCT international application Number on
	said United States Patent Application including any and all divisions or
continuation	s thereof and in and to any and all Letters Patent of the United States, which
may issue on	any such application or for said invention, including any and all reissues or

as set forth in his United States Patent Application (check one):

extensions thereof, to be held and enjoyed by said ASSIGNEE, its successors, representatives and assigns to the full end of the term or terms for which any and all such Letters patent may be granted as fully and entirely as would have been held and enjoyed by the undersigned had this Assignment not been made.

Each of the undersigned hereby authorizes and requests the Commissioner of Patents and Trademarks to issue any and all such Letters patent to said ASSIGNEE, its successors or assigns in accordance herewith.

Each of the undersigned warrants and covenants that he has the full and unencumbered right to sell and assign the interests herein sold and assigned and that he has not executed and will not execute any document or instrument in conflict herewith.

Each of the undersigned further covenants and agrees he will communicate to said ASSIGNEE, its successors, legal representatives or assigns all information known to him relating to said invention or patent application and that he will execute and deliver any papers, make all rightful oaths, testify in any legal proceedings and perform all other lawful acts deemed necessary or desirable by said ASSIGNEE, its successors, legal representatives or assigns to perfect title to said invention, to said application including divisions and continuations thereof and to any and all Letters Patent which may be granted therefor or thereon, including reissues or extensions, in said ASSIGNEE, its successors, or assigns or to assist said ASSIGNEE, its successors, legal representatives or assigns in obtaining, reissuing or enforcing Letters Patent of the United States for said invention.

Each of the undersigned hereby grants the firm of Crowell Moring, L.L.C., or any partner thereof, the power to insert into this Assignment any further identification, which may be necessary or desirable to comply with the rules of the U.S. Patent and Trademark Office for recordation of this Assignment.

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03/11/2003

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> **PATENT** REEL: 014970 FRAME: 0852

ASSIGNMENT

Page 2 of 2

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